ABSTRACT

A simulator which may provide interferometer-based signatures of agent, stimulant, interferent and toxic chemicals for scenarios to test sensors, detectors and like systems. The simulator may assimilate data and information related to a calibrated background spectrum, and atmospheric and cloud models for simulating signatures and corresponding scenarios. Data and information may include, but not limited to, field data, atmospheric conditions, agent absorption coefficients, system performance requirements. Various modeling and computing tools may be incorporated in the simulation process.